

Patent Number(s): JP54163996-A; JP86018568-B

Title: Polyethylene terephthalate with improved colour - prepd. by polycondensation of bis beta-hydroxyethyl terephthalate in presence of added antimony, tin, cobalt and magnesium cpds.

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Derwent Primary Accession Number: 1980-10415C [18]

Patents Cited by Inventor: 0 **Citing Patents:** 0 **Articles Cited by Inventor:** 0

Patents Cited by Examiner: 0 **Articles Cited by Examiner:** 0

Abstract:

In the prodn. of a polyester by polycondensn. of bis(beta-hydroxyethyl)terephthalate, an antimony cpd., organic tin cpd., cobalt cpd. and magnesium cpd. are added in amts. that satisfy the equations. $1 \times 10^{-4} A$ 8×10^{-4} ; $0.01 B/A$ 0.15 ; $0.2 \times 10^{-4} C$ 1.5×10^{-4} ; and $0.1 D/A$ $5.$, where A,B,C, and D are moles of Sb,Sn,Co and Mg per mole of acid component of the polyester.

Sb cpds. are Sb trioxide, acetate, trichloride, etc. The organic Sn cpds. are diethyl tin oxide, triphenyl tin hydroxide, etc. The Co cpds. are Co chloride, acetate, etc. The Mg cpds. are Mg hydroxide, carbonate, etc.

The presence of the Mg cpd. increases the bluing effect of cobalt cpd. and yellowing of polyester is controlled. The method produces PET with excellent transparency and colour tone can be obtd.

International Patent Classification: C08G-063/36

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds); E12 (Organometallics); A60 (Additives, Compounding Agents); E37 (Mixtures of many components)

Derwent Manual Code(s): A02-A06; A05-E04A; A09-A02; E05-F01; E05-J; E05-L02; E31-M; E34-B; E35-V

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